

- 1 (a) an anhydrous hydrocarbon compound liquid at ambient temperature;
2 (b) having at least one di- or poly- Group VI-A element of the periodic table of
3 elements; and
4 (c) a natural or synthetic polymer liquid at ambient temperature having a molecular
5 weight less than 25,000 ~~30,000~~.

1 2. (Original) A cross-linking compound as set forth in Claim 1 wherein said Group VI-A
2 element is sulfur.

1 3. (Original) A cross-linking compound as set forth in Claim 1 wherein said polymer is
2 a multi-component polymer.

1 4. (Original) A cross-linking compound as set forth in Claim 1 wherein said polymer is
2 saturated.

1 5. (Original) A cross-linking compound as set forth in Claim 1 wherein said polymer
2 contains functional groups.

1 6. (Previously Withdrawn)

1 7. (Original) A cross-linking compound as set forth in Claim 1 wherein said polymer
2 contains two or more chemical moieties.

1 8. (Original) A cross-linking compound as set forth in Claim 7 wherein said polymer is
2 a copolymer of butylene and butene.

1 Claims 9 and 10 (Previously Withdrawn)

1 11. (Previously Canceled)

1 12. (Currently Amended) A cross-linking compound which comprises:

2 (a) an anhydrous hydrocarbon compound liquid at ambient temperature;

3 (b) molecules or chemical moieties having two or more Group VI-A elements of
4 the periodic table of elements; and

5 (c) a natural or synthetic polymer liquid at ambient temperature having a molecular
6 weight less than 25,000 ~~30,000~~.

1 13. (Original) A cross-linking compound as set forth in Claim 12 wherein said polymer
2 is a multi-component polymer.

1 14. (Original) A cross-linking compound as set forth in Claim 12 wherein said polymer
2 is saturated.

1 15. (Original) A cross-linking compound as set forth in Claim 12 wherein said polymer
2 contains functional groups.

1 16. (Previously Withdrawn)

1 17. (Original) A cross-linking compound as set forth in Claim 12 wherein said polymer
2 contains two or more chemical moieties.

1 18. (Original) A cross-linking compound as set forth in Claim 17 wherein said polymer
2 is a copolymer of butylene and butene.

1 19. (Original) A cross-linking compound as set forth in Claim 12 wherein said Group VI-
2 A elements of the periodic table of elements are in terminal positions on the molecules or chemical
3 moieties.

1 20. (Original) A cross-linking compound as set forth in Claim 19 wherein at least one of
2 said Group VI-A elements of the periodic table of elements is sulfur.

1 21. (Original) A cross-linking compound as set forth in Claim 20 wherein the molecules
2 or chemical moieties are mercaptans.

1 22. (Original) A cross-linking compound as set forth in Claim 12 wherein said Group VI-
2 A elements of the periodic table of elements are not in the terminal position of the molecules or
3 chemical moieties.

1 23. (Original) A cross-linking compound as set forth in Claim 22 wherein said Group VI-
2 A elements of the periodic table of elements are poly-element moieties within the molecules or
3 chemical moieties.

1 24. (Original) A cross-linking compound as set forth in Claim 23 wherein at least one of
2 said Group VI-A elements is sulfur.

1 25. (Original) A cross-linking compound as set forth in Claim 23 wherein the molecules
2 or chemical moieties are Di-tert-butyl polysulfide, Di-tert-dodecyl polysulfide, Di-tert-nonyl
3 polysulfide or combinations thereof.

1 26. (Original) A cross-linking compound as set forth in Claim 23 wherein the poly-
2 element moiety is poly-sulfide.

Claims 27 through 35 (Previously Withdrawn)

Claims 36 through 38 (Previously Canceled)

Claims 39 - 46 (Previously Withdrawn)

Claims 47 and 48 (Previously Canceled)